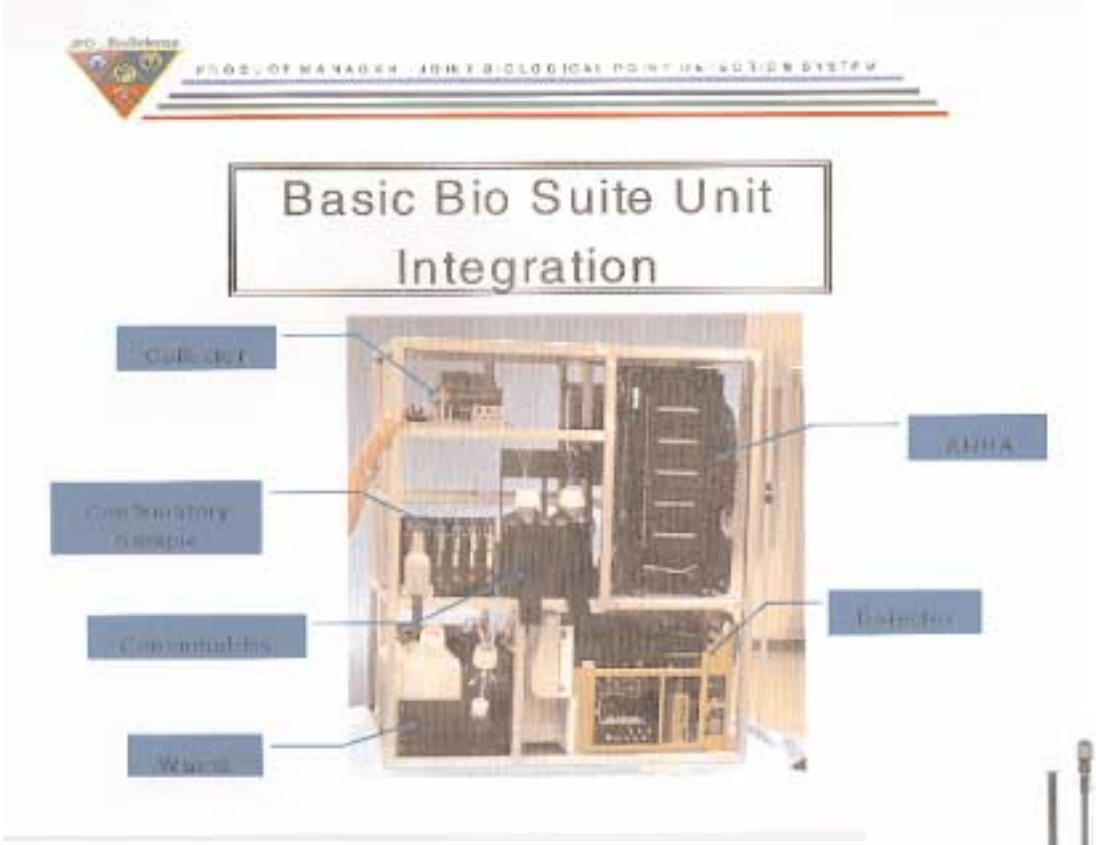
Joint Biological Point Detection System (JBPDS)



Joint Biological Point Detection System (JBPDS)

Information Dominance

MISSION
Automatically detect and identify biological warfare agents.

DESCRIPTION AND SPECIFICATIONS
The Joint Biological Point Detection System (JBPDS) will be installed on vehicles, ships, and at fixed installations to provide biological detection and warning for all service personnel. The JBPDS detects and identifies low-concentration biological warfare agents in less than twenty minutes. The system is fully automated and is compatible with the Joint Technical Architecture (JTA). Ten different biological warfare agents can be identified simultaneously, and a sample of any positive identification is immediately captured by the system for further analysis at designated laboratories.

The JBPDS can be operated remotely out to a distance of five kilometers by hard wire or by radio communication link. More than 30 JBPDSs can be controlled from a single control station. The JBPDS uses a common biological detection suite for various applications under development including: man-portable, shelter-mounted, fixed-site, and shipboard versions. The JBPDS is designed to meet the environmental, shock, and vibration profiles of its intended platforms, as well as requirements for service reliability, availability, and maintainability.

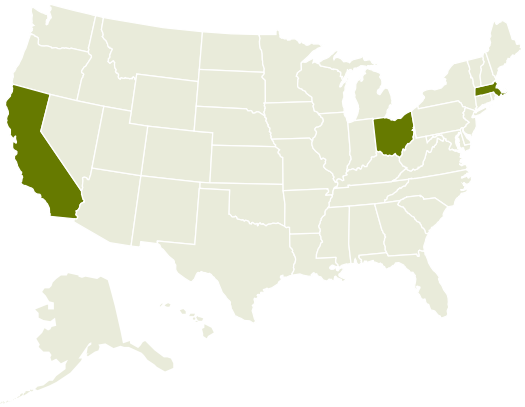
FOREIGN COUNTERPART
Canadian Integrated Biological Agent Detector System

FOREIGN MILITARY SALES
None

PROGRAM STATUS
FY99 Conducted engineering development tests.

PROJECTED ACTIVITIES
FY00 Fabricate JBPDS for pre-production qualification testing/operational evaluation.
4QFY00 Scheduled contract award for low-rate initial production.
FY01 Complete initial operational test and evaluation.
4QFY01 Begin full-rate production and fielding.

PRIME CONTRACTORS
Lockheed Martin (Glendale, CA); Battelle (Columbus, OH); MIT Lincoln Laboratories (Lexington, MA)



* See appendix for list of subcontractors